

II. Claims

The present version and listing of the claims replaces all prior versions and listings of the claims.

1. (previously presented) A method of redacting content from a document in portable document format (PDF) comprising a PDF data stream, comprising the steps of:

selecting at least one geometric area on the document for redaction, said geometric area having content comprising at least one image and text;

representing said geometric area as one or more annotation objects;

identifying information in the document representing content and location and nature of content;

representing said identified information as one or more content objects, said one or more content objects comprising one or more image occurrence objects and one or more text occurrence objects;

identifying content having the same geometric location as said annotation objects;

removing said identified content; and

creating an electronic output PDF file comprising said PDF data stream except for portions of said PDF data stream corresponding to said identified content, a redacted document being producible from said output PDF file for display.

2. (original) The method of claim 1, wherein one or more items of information are associated with said annotation object:

3. (canceled).

4. (previously presented) The method of claim 1, wherein the redacted text and redacted at least one image are not found in the redacted document.

5. (canceled)
6. (canceled)
7. (canceled)
8. (canceled)
9. (previously presented) A storage medium having stored therein a plurality of instructions, wherein the plurality of instructions, when executed by a processor, cause the processor to perform the steps of:
 - permitting a user to select at least one geometric area on a document for redaction, said geometric area having content comprising at least one image and text, said document being in portable document format (PDF) comprising a PDF data stream;
 - representing said geometric area as one or more annotation objects;
 - identifying information in the document representing content and location and nature of content, said content comprising at least one image and text;
 - representing said identified information as one or more content objects, said one or more content objects comprising one or more image occurrence objects and one or more text occurrence objects;
 - identifying content having the same geometric location as said annotation objects;
 - removing said identified content; and
 - creating an electronic output PDF file comprising said PDF data stream except for portions of said PDF data stream corresponding to said identified content, a redacted document being producible from said output PDF file.
10. (original) The storage medium of claim 9, wherein one or more items of information are associated with said annotation object.
11. (canceled)

12. (previously presented) The storage medium of claim 9, wherein the text and at least one image marked for redaction have been removed in the redacted document.

13. (canceled)

14. (canceled)

15. (canceled)

16. (canceled)

17. (previously presented) A system for redacting content from a document in portable document format (PDF) comprising a PDF data stream, comprising:

means for permitting a user to select at least one geometric area on the document for redaction, said geometric area having content comprising at least one image and text;

means for representing said geometric area as one or more annotation objects;

means for identifying information in the document representing content and location and nature of content, said content comprising at least one image and text;

means for representing said identified information as one or more content objects, said one or more content objects comprising one or more image occurrence objects and one or more text occurrence objects; and

means for identifying content having the same geometric location as said annotation objects;

means for removing said identified content, and

means for creating an electronic output PDF file comprising said PDF data stream except for portions of said PDF data stream corresponding to said identified content, a redacted document being producible from said output file.

18. (original) The system of claim 17, wherein one or more items of information are associated with said annotation object.

19. (canceled)
20. (original) The system of claim 17, wherein the information to be redacted is not found in the redacted document.

21. (canceled)

22. (canceled)

23. (canceled)

24. (canceled)

25. (canceled)

26. (previously presented) A computer implemented method of redacting content from a document in portable document format (PDF) comprising a PDF data stream, comprising the steps of:

selecting a first geometric area on the document for redaction, said first geometric area having content comprising at least one image;

selecting a second geometric area on the document for redaction, said second geometric area having content comprising text;

representing said geometric areas as annotation objects;

parsing said document into one or more content objects representing content and location and nature of content in said document, said one or more content objects comprising one or more text occurrence objects and one or more image occurrence objects;

identifying content from said one or more content objects having the same geometric location as said annotation objects; and

creating an output PDF file comprising said PDF data stream except for portions of said PDF data stream corresponding to said identified content, wherein a redacted

document is producible from said output PDF file.

27. (currently amended) A computer implemented method of redacting content from a document in portable document format (PDF) comprising a PDF data stream, comprising the steps of:

selecting a first geometric area on the document for redaction, said first geometric area having content comprising at least one image;

selecting a second geometric area on the document for redaction, said second geometric area having content comprising text;

representing said geometric areas as annotation objects;

parsing said document into one or more content objects representing content and location and nature of content in said document, said one or more content objects comprising one or more text occurrence objects and one or more image occurrence objects;

identifying content from said one or more content objects having the same geometric location as said annotation objects; and

creating an output PDF file comprising said PDF data stream except for portions of said PDF data stream corresponding to said identified content, wherein a redacted document is producible from said output PDF file.

~~The method of Claim 26~~, wherein said selecting step comprises:

displaying all or a portion of the document; and

manipulating a movable viewing frame superimposed on the displayed document, content having a geographic location within said frame being visible to the user during said step of manipulation.

28. (currently amended) A method of redacting content from a document in portable

document format (PDF) comprising a PDF data stream, comprising the steps of:

selecting at least one geometric area on the document for redaction, said
geometric area having content comprising at least one image and text;

representing said geometric area as one or more annotation objects;

identifying information in the document representing content and location and
nature of content;

representing said identified information as one or more content objects, said one
or more content objects comprising one or more image occurrence objects and one or more text
occurrence objects;

identifying content having the same geometric location as said annotation objects;

removing said identified content; and

creating an electronic output PDF file comprising said PDF data stream except for
portions of said PDF data stream corresponding to said identified content, a redacted document
being producible from said output PDF file for display.

~~The method of Claim 1~~, wherein said information identifying step comprises:

displaying all or a portion of the document; and

manipulating a movable viewing frame superimposed on the displayed document,
content having a geographic location within said frame being visible to the user during
said step of manipulation.

29. (currently amended) A storage medium having stored therein a plurality of
instructions, wherein the plurality of instructions, when executed by a processor, cause the
processor to perform the steps of:

permitting a user to select at least one geometric area on a document for
redaction, said geometric area having content comprising at least one image and text, said

document being in portable document format (PDF) comprising a PDF data stream;

representing said geometric area as one or more annotation objects;

identifying information in the document representing content and location and nature of content, said content comprising at least one image and text;

representing said identified information as one or more content objects, said one or more content objects comprising one or more image occurrence objects and one or more text occurrence objects;

identifying content having the same geometric location as said annotation objects;

removing said identified content; and

creating an electronic output PDF file comprising said PDF data stream except for portions of said PDF data stream corresponding to said identified content, a redacted document being producible from said output PDF file,

~~The storage medium of Claim 9, wherein the information identifying step comprises:~~

~~displaying all or a portion of the document; and~~

~~manipulating a movable viewing frame superimposed on the displayed document, content having a geographic location within said frame being visible to the user during said step of manipulation.~~

30. (currently amended) A system for redacting content from a document in portable document format (PDF) comprising a PDF data stream, comprising:

means for permitting a user to select at least one geometric area on the document for redaction, said geometric area having content comprising at least one image and text;

means for representing said geometric area as one or more annotation objects;

means for identifying information in the document representing content and location and nature of content, said content comprising at least one image and text;

means for representing said identified information as one or more content objects, said one or more content objects comprising one or more image occurrence objects and one or more text occurrence objects; and

means for identifying content having the same geometric location as said annotation objects;

means for removing said identified content, and

means for creating an electronic output PDF file comprising said PDF data stream except for portions of said PDF data stream corresponding to said identified content, a redacted document being producible from said output file,

~~The system of claim 17~~, wherein the information identifying means comprises:

means for displaying all or a portion of the document; and

means for manipulating a movable viewing frame superimposed on the displayed document, content having a geographic location within said frame being visible to the user during said step of manipulation.

31. (previously presented) The method of claim 1, wherein said removing step comprises replacing pixels corresponding to said identified content with replacement pixels, said replacement pixels being included in said PDF data stream of said output PDF file.

32. (previously presented) The medium of claim 9, wherein said removing step comprises replacing pixels corresponding to said identified content with replacement pixels, said replacement pixels being included in said PDF data stream of said output PDF file.

33. (previously presented) The medium of claim 17, wherein said means for removing said identified content replaces pixels corresponding to said identified content

with replacement pixels, said replacement pixels being included in said PDF data stream of said output PDF file.

34. (previously presented) The method of claim 26, further comprising the step of replacing pixels corresponding to said content comprising at least one image with replacement pixels, said replacement pixels being included in said PDF data stream of said output PDF file.

35. (canceled)

36. (canceled)